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## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Previously Presented) A collapsible filter element for a transcatheter embolic protection device, the filter element comprising:

a collapsible filter body which is movable between a collapsed stored position for movement through a vascular system, an expanded position for extension across a blood vessel such that blood passing through the blood vessel is delivered through the filter element, and a withdrawal position for assisting in removing the filter body from a patient;

a proximal inlet portion of the filter body having one or more inlet openings sized to allow blood and embolic material enter the filter body; and

a distal outlet portion of the filter body having a plurality of outlet openings sized to allow through-passage of blood, but to retain embolic material within the filter body;

the filter body being at least partially of laminate construction comprising a membrane coated with a coating which is biocompatible, the thickness of the coating being from 4% to 40% of the thickness of the membrane to enhance the mechanical characteristics of the filter body.

2. (Previously Presented) A filter element as claimed in claim 1 wherein the thickness of the coating is from 4% to 30% of the thickness of the membrane.

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3. (Previously Presented) A filter element as claimed in claim 1 wherein the thickness of the coating is approximately 20% of the thickness of the membrane.

4. (Previously Presented) A filter as claimed in claim 1, wherein the membrane is of a material selected from one or more of polyether block amide (PEBAX), polyester, polyethylene, polyurethane, terephthalate, nylon or, as appropriate, copolymers thereof.

- 5. (Previously Presented) A filter element as claimed in claim 1, wherein the coating is at least partially of a material selected from a non thrombogenic material and a fluropolymer material.
- 6. (Previously Presented) A filter element as claimed in claim 1, wherein the coating is of a hydrophilic material.
- 7. (Previously Presented) A filter element as claimed in claim 1 wherein the coating is of a hydrogel material.
- 8. (Previously Presented) A filter element as claimed in claim 1, wherein the coating includes a physiologically acceptable additive.
- 9. (Original) A filter element as claimed in claim 8 wherein the additive is a therapeutic additive.

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10. (Currently Amended) A filter element as claimed in claim 8 or 9 wherein the additive is an antithrombogenic additive.

- 11. (Original) A filter element as claimed in claim 10 wherein the antithrombogenic additive is heparin.
- 12. (Previously Presented) A filter element as claimed claim 1, wherein the filter body is surface treated prior to application of the coating.
- 13. (Previously Presented) A filter element as claimed in claim 1, wherein the filter body comprises a proximal body section, a distal body section and an intermediate body section interconnecting the proximal and distal body sections, one or more of the body sections being of laminate construction.
- 14. (Original) A filter element as claimed in claim 13 wherein the body sections are of the same laminate construction.
- 15. (Original) A filter element as claimed in claim 14 wherein at least two of the body sections are of different laminate construction.
- 16. (Previously Presented) A filter element as claimed in claim 1, wherein the filter body has regions of at least one of varying hardness and stiffness.
- 17. (Previously Presented) A filter element as claimed in claim 1, wherein the filter body has a durometer of between 60D and 70A Shore hardness.

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18. (Previously Presented) A filter element as claimed in claim 1, wherein the filter body has a first relatively stiff portion and a second relatively soft portion.

19. (Previously Presented) A filter element as claimed in claim 1, wherein one portion of the filter body has a larger wall thickness than a wall thickness of another section or portion.

- 20. (Previously Presented) A filter element as claimed in claim 1, wherein the filter body comprises a proximal body section and a distal body section, one of which forms a stiff first portion and the other of which forms a soft second portion.
- 21. (Original) A filter element as claimed in claim 20 wherein a proximal body section forms the soft second portion.
- 22. (Previously Presented) A filter element as claimed in claim 18, wherein the filter body comprises a proximal body section and a distal body section interconnected by an intermediate body section, one or both of the proximal body section and the intermediate body section forming the soft second portion, the distal body section forming the stiff first portion.
- 23. (Previously Presented) A filter element as claimed in claim 1, wherein the proximal body section has a ribbed outer surface.

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24. (Previously Presented) A filter element as claimed in claim 1, wherein a plurality of spaced-apart longitudinal ribs are provided on the proximal section.

25. (Previously Presented) A filter element as claimed in claim 1, wherein the proximal body section includes corrugations.

26. (Previously Presented) A filter element as claimed in claim 1, wherein the filter body has expansion means to facilitate retrieval of the captured embolic material.

27. (Original) A filter element as claimed in claim 26 wherein at least the distal portion of the filter body is of a membrane material that is stretchable.

28. (Previously Presented) A filter element as claimed in claim 27 wherein at least the membrane is stretchable in a longitudinal direction to facilitate retrieval from the vasculature system.

- 29. (Previously Presented) A filter element as claimed in claim 1, wherein the filter body includes an intermediate portion extending proximally of the distal portion, the intermediate portion being of a membrane material that is stretchable.
- 30. (Previously Presented) A filter element as claimed in claim 1, wherein the filter body is a membrane of a memory material.

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31. (Original) A filter element as claimed in claim 30 wherein the membrane is

of polymeric material.

32. (Currently Amended) A collapsible filter element for a transcatheter embolic

protection device, the filter element comprising:

a collapsible filter body which is movable between a collapsed stored position for

movement through a vascular system and an expanded position for extension across a

blood vessel such that blood passing through the blood vessel is delivered through the

filter element;

a proximal inlet portion of the filter body having one or more inlet openings sized

to allow blood and embolic material to enter the filter body; [[and]]

a distal outlet portion of the filter body having a plurality of outlet openings sized

to allow through-passage of blood, but to retain embolic material within the filter body;

and

a filter support frame for supporting the filter body in the expanded position

extended across a blood vessel;

the filter body having regions of at least one of varying hardness and stiffness

resulting at least in part from a laminate construction of at least one of the regions.

33. (Original) A filter element as claimed in claim 32 wherein the filter body has

a durometer of between 60D and 70A Shore hardness.

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34. (Previously Presented) A filter element as claimed in claim 32 wherein the filter body has a first relatively stiff portion and a second relatively soft portion.

- 35. (Previously Presented) A filter element as claimed in claim 34 wherein the first portion has a larger wall thickness than a wall thickness of the second portion.
- 36. (Previously Presented) A filter element as claimed in claim 34, wherein the filter body comprises a proximal body section and a distal body section, one of which forms said stiff first portion and the other forming the soft second portion.
- 37. (Original) A filter element as claimed in claim 36 wherein the proximal body section forms the soft second portion.
- 38. (Previously Presented) A filter element as claimed in claim 34, wherein the filter body comprises a proximal body section and a distal body section interconnected by an intermediate body section, one or both of the proximal body section and the intermediate body section forming the soft second portion, the distal body section forming the stiff first portion.
- 39. (Previously Presented) A filter element as claimed in claim 36, wherein the proximal body section has a ribbed outer surface.

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40. (Previously Presented) A filter element as claimed in claim 36, wherein a

plurality of spaced-apart longitudinal ribs are provided on the proximal section.

41. (Previously Presented) A filter element as claimed in claim 36, wherein the

proximal body section includes corrugations.

42-47. (Canceled)

48. (Previously Presented) A transcatheter embolic protection device including:

a delivery system comprising:

a tubular member having a longitudinal axis, distal and proximal portions,

said distal portion of the tubular member being removable advanceable into the

vasculature of a patient;

a medical guidewire longitudinally axially movable in said tubular member

and having distal and proximal portions;

and a filter element as claimed in claim 1, the filter body having;

a first collapsed, insertion and withdrawal configuration and a second

expanded, deployed configuration;

a proximal inlet section and distal outlet section, said proximal inlet section

including inlet openings which are operable to admit body fluid when the filter body is in

the second expanded configuration;

a plurality of outlet openings disposed on at least a portion of the filter

element adjacent to the distal outlet section;

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wherein said filter body is moved between said first and second configurations by displacement of said delivery system.

49. (Previously Presented) A device as claimed in claim 48 wherein the filter

body has collapsible filter frame operably coupled thereto.

50. (Original) A device as claimed in claim 49 wherein said frame comprises a

plurality of support arms having proximal and distal ends.

51. (Previously Presented) A device as claimed in claim 50 wherein the arms

are formed of at least one of an elastic, a superelastic and a shape memory material.

52. (Previously Presented) A device as claimed in claim 49, wherein said frame

is constructed such that filter body is biased toward said second, deployed

configuration.

53. (Previously Presented) A device as claimed in claim 50, wherein said inlet

openings are defined at least partially by said arms.

54. (Previously Presented) A device as claimed in claim 50, wherein proximal

portions of said arms extend generally outwardly and distally from said guidewire when

said filter body is in said second, deployed configuration.

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55. (Previously Presented) A device as claimed in claim 50, wherein distal portions of said arms extend generally outwardly and proximally from said guidewire when said filter body is in said second, deployed configuration.

56. (Previously Presented) A device as claimed in claim 48, wherein the distal portion of the tubular member further includes a pod for receiving therein the filter body when in said first, collapsed configuration.

57. (Previously Presented) A device as claimed in claim 56 wherein said filter body is urged into said first, collapsed configuration by said pod when the guidewire is moved proximally.

- 58. (Previously Presented) A device as claimed in claim 48, wherein said guidewire is solid.
- 59. (Previously Presented) A device as claimed in claim 48 wherein said filter body comprises a sleeve slidably disposed on said guidewire.
- 60. (Previously Presented) A device as claimed in claim 59 further comprising stops for limiting the range of longitudinal movement of the sleeve on said guidewire.
- 61. (Previously Presented) A device as claimed in claim 60 wherein the sleeve further comprises a guidewire member distal to the filter body tapering distally.

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62. (Previously Presented) A filter element as claimed in claim 1, including a filter diameter between 4 mm and 6 mm.

63. (Previously Presented) A filter element as claimed in claim 32, including a filter diameter between 4 mm and 6 mm.

64. (Canceled)